	SULATION AND PIPING Build Buil		410A-450 ject Director	TRAPS 2 Approved: Proj		BRIAN WIDOWSKI 66625 JEER	XK, FREDRICK & HELLER ENGINEERS, INC. EAST ROYALTON ROAD ADVIEW HTS., OHIO 44147 TEL (440) 546-9696 FAX: (440) 546-9699	EBID 05-23-13 IISSION 12-21-12 N 11-16-12 FREDRIC 672 BRO
oject Number 541-12-115			ו ס	Drawing Title	ARCHITECT:		NTS:	CONSULTA
	VINGS {3-PH-4 4-02 4-03 4-04 4-05 }	IS NOTED. SEE DETAILS O	CONDENSA RED RED	9 REPIPE ELEVATI UING STEAM TRAP 10 NO WORK REQU UCT ALTERNATE 11 NO WORK REQU 12 NO WORK REQU 13 MISCELLANEOU:	ABANDONED CONDENSATE PIPING TO A POINT WILLIAM ACCORCANCE WITH DESCRIPTION IN REMATHE VALVES, CONTROLS ETC. AS DESCRIBED IN THE VALVES, CONTROLS ETC. AS DESCRIBED IN THE X ALL ITEMS FOUND TO BE NEEDING REPAIR. (FOR PIPING WITH NEW STEEL PIPE AND REPLACE THE REQUIRED MATERIALS AND FITTINGS. INS	REMOVE STEAM TRA REPAIR STEAM/CONE COLD STEAM TRAPS: AT WERE FOUND TO BE 1. 1. REPLACE THE EXISTIE DRK. SEE THE SPECIFIC	PE.	XIS1 3AR
	AARKS COLUMN. EAM TRAP.	BREAKERS IN ACCORDANCE WITH THE REI	ISTALL NEW STEAM VACUUN	⑦ FURNISH AND INS	USTIC WIRELE	ENOTES: STALL AN PAIR STE,	Y 3'	NOTES: 1. RAISE HEAT EXCHANGER AND TRAP ASSEMBLY TO AN ELEVATION ABOVE THE INLET TO ADJACENT CONDENSATE PUMP RECEIVER, APPROXIMATEL RECONNECT STEAM SLIPPLY AND HWS & HWR CONNECTIONS INSLIED ATE
×					STEAM COIL OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL #1FP-SA-75 FACE PLATE KIT. NEW TAG. INSPECTED 8/9/	NICHOLSON FTN-75 25 STE		450 ATRIUM PENTHOUSE AC-54 PRV H.P. DRIP 3-1
× ×	*	×			#IFFI-WM-15	INLINE 10M UNIT HEATER 3/4" NICHOLSON FTN-15 10 STEAM MAIN	ω ω	448 ATRIUM PENTHOUSE AC-54 PRV L.P. DRIP 3-1
×					STEAM TRAP COLD OUT OF SE	VATSON MCD ETES 10 STEAL	П	447 ATRIUM PENTHOUSE AC-55 N. SUPPLY DRIP 3-1
×					SERVICE VACUUM BREAKER AT COIL OUTLET. NEW TAG. INSPECTED 8/9/12. STEAM COIL OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL #1FP-SA-15 FACE PLATE KIT. NEW TAG. INSPECTED 8/9/	10 STI	ъ	446 ATRIUM PENTHOUSE AC-54 S. SUPPLY DRIP 3-1
××	× ×				VACUUM BREAKER AT COIL STEAM COIL OK, WHEN WOR	10M STE	пп	444 ATRIUM PENTHOUSE AC-54 S. UNIT HEATER 3-1
				×	BODY GASKET. SHOULD REL PIPING NOT INSULATED. NEV	811 10 STEAM DRI	ω	443 ATRIUM PENTHOLISE AC 55 HOWIDITIES ATRIUM PENTHOLISE AC 55 HOWIDITIES ATRIUM PENTHOLISE AC 55 HOWIDITIES 31
				×	OK BODY GASKET. SHOULD RELOCATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDENSATE ELEVATED 18". STEAM PIPING NOT INSULATED. NEW TAG. INSPECTED 8/9/12.	3/4" ARMSTRONG 811 10 STEAM MAIN DRIP	3 B	442
				×	DE AHU). WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1RK-15-B3 REPAIR KIT. SHOULD ITAP. SHOULD RELOCATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDEINCED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	3	441 ATRIUM PENTHOUSE AC-55 HUMIDIFIER WEST 3-1
	×			×	DE AHU). WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1RK-15-B3 REPAIR KIT. SHOULD H RAP. SHOULD RELOCATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDEN ECTED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	PH-3 3 F 1	440 ATRIUM PENTHOUSE AC-55 HUMIDIFIER WEST 3-I
	×			×	INSIDE AHU). WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1RK-15-B3 REPAIR KIT. SHOULD M TRAP. SHOULD RELOCATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDE NSPECTED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	PH-3 3 F 1	439 ATRIUM PENTHOUSE AC-55 HUMIDIFIER MIDDLE 3-I
	×			×	INSIDE AHU). WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1RK-15-B3 REPAIR KIT. SHOULD M TRAP. SHOULD RELOCATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDE NSPECTED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	3 F	438 ATRIUM PENTHOUSE AC-55 HUMIDIFIER MIDDLE 3-1
	*		×		STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH NICHOLSON #5819101 LEVER AND VALVE KIT, THERMOSTATIC ELEMENT AND OK/LK COVER GASKET. NEEDS TUNSTALL VB-1/2" STEAM SERVICE VACUUM BREAKER. 4" UPPER LEVEL GATE VALVE LEAKS STEAM, REPAIR. NEW TAG. INSPECTED 8/9/12.	2.5" NICHOLSON MAX FLO HC15J 10M STEAM COIL		437 ATRIUM PENTHOUSE AC-54 S. STEAM COIL TRAP 3-1
				×	INSIDE AHU). WHEN WORN, REPAIR STEAM TRAP WITH ARMSTRONG 811 PCA, 1/8" ORIFICE REPAIR ATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDENSATE ELEVATED 18'. NEV	3/4" ARMSTRONG 811 10 STEAM MAIN DRIP	PH-3 3 B 6	436 ATRIUM PENTHOUSE AC-54 HUMIDIFIER MIDDLE 3-I
				×	ORIFICE REPAIR LEVATED 18". NE	3/4" ARMSTRONG 811 10 STEAM MAIN DRIP	PH-3 3 B 6	435 ATRIUM PENTHOUSE AC-54 HUMIDIFIER MIDDLE 3-1
				×	OK. (STEAM TRAP INSIDE AHU). WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1RK-15-B3 REPAIR KIT. SHOULD OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDENSATE WASTED TO DRAIN. NEW TAG. INSPECTED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	PH-3 3 F 1	434 ATRIUM PENTHOUSE AC-54 HUMIDIFIER WEST 3-1
	×			×	TRAP II	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	3 F 1	433 ATRIUM PENTHOUSE AC-54 HUMIDIFIER WEST 3-1
				×	SHOULD SPECTED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	PH-3 3 F 1	432 ATRIUM PENTHOUSE AC-54 HUMIDIFIER MIDDLE 3-1
				×	OK STEAM TRAP OK. (STEAM TRAP INSIDE AHU). WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1RK-15-B3 REPAIR KIT. SHOULD RELOCATE STEAM TRAP OUTSIDE OF AHU FOR EASE OF MAINTENANCE. CONDENSATE WASTED TO DRAIN. NEW TAG. INSPECTED 8/9/12.	3/4" ARMSTRONG 15-B3 10 HUMIDIFEIR	PH-3 3 F 2	431 ATRIUM PENTHOUSE AC-54 HUMIDIFIER MIDDLE 3-I
×	×		×		5	1.5" HOFF FT030H-6 10M EXCHANGER	-B-3 8 F 2	CARES TOWER BASEMENT B LEVEL MECH RM 430A BF-192 HWT-2 HEAT EXCHANGER
× >					STEAM TRAP OK. WHEN WORN, RE	FT-30		CARES TOWER BASEME BF-192 HWT-2 DRIP TRA
<	*		*		OK/LK STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL #9FP-HF-30 FACE PLATE KIT. HOFFMAN #62 VACUUM BREAKER LEAKS STEAM REPLACE WITH TUNSTALL VB-1/2" STEAM SERVICE VACUUM BREAKER. NEW TAG. INSPECTED 8/8/12. STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL #1FD SA 30 FACE DI ATE KIT. NEW TAG. INSPECTED 8/8/12	1.5" HOFF FT030H-6 10M EXCHANGER 24" SDIBAY ET 20 25 STEAM MAIN	·B-3 8	
			×	×	STEAM TRAP COLD OUT OF SERVICE. IF REQUIRED, REPAIR STEAM TRAP WITH 2" SPIRAX FTB-30 F&T STEAM TRAP REPINSPECTED 8/83/12.	EXC T	п	CARES TOWER BASEMENT B LEVEL MECH RM CARES TOWER BASEMENT B LEVEL MECH RM 3-
×					STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP TUNSTALL #1FP-SA-15 FACE PLATE KIT. NEW TAG. INSPECTED 8/8	T-15 12 STI	П	CAR BF-1
××					STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP TUNSTALL #1FP-SA-30 FACE PLATE KIT. NEW TAG. INSPECTED 8/8 STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP TUNSTALL #1FP-SA-30 FACE PLATE KIT. NEW TAG. INSPECTED 8/8	3/4" SPIRAX FT-30 25 DRIP 3/4" SPIRAX FT-30 25 STEAM MAIN DRIP	8 F 2	분위 분
×					ORN, REPAIR STEAM TRAP TUNSTALL #1FP-SA-15 FACE PLATE KIT. NEW TAG. INSPECTI	-15		CARES TOWER BASEMENT B LEVEL MECH RM 423 BF-192 LOW PRESSURE DRIP CARES TOWER BASEMENT B LEVEL MECH RM 3-
× ×					STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH 2" SPIRAX FTB-30 F&T STEAM TRAP REPAIR KIT. N	12M EX(пт	421 EXCHANGER CARES TOWER BASEMENT B LEVEL MECH RM 3- 422 BF-192 HX-1
				×	STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP TUNSTALL #1FP-SA-15 FACE PLATE KIT	5		420 EXCHANGER DRIP NEW MRI XRAY PENTHOUSE AC-6 HEAT NEW MRI XRAY PENTHOUSE AC-6 HEAT 3
×					STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP TUNSTALL #6FP-HF-15 FACE PLATE KIT. NEW TAG. INSPEC	12M STE	П	419 NEW MRI XRAY PENTHOUSE AC-6 STEAM COIL 3-
×			×		PUMP TRAP HAS HARD INSULATION. NEEDS TO BE RE-PIPED FOR PROPER HEAD REQUIREMENTS TO FUNCTION TO CAPACITY. NEW TAG. INSPECTED 8/2/12.	TRAP 40 I	ס	BASEMENT RESEARCH EQUIP. RM BF467 AC-26 3 418 PUMPING TRAP
>				×	WHEN WORN, REPAIR STEAM TRAP WITH ARMSTRONG 811 PCA, 1/8" ORIFICE, BODY GASKET. NEW TAG. INSPECTED 8/2/		ω σ	SUPPLY DRIP BASEMENTMECH RM BF-467, SUPPLY DRIP TO 3 417 SPIRAX PUMPING TRAP
×				NOTE 2	STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 4RK-SA-15 STEAM TRAP REPAIR KIT. NEW TAG. INSPECTED 8/2/12. STEAM TRAP OK. WHEN WORN. REPAIR STEAM TRAP WITH ARMSTRONG 811 PCA. 1/8" ORIFICE. BODY GASKET. NEW TAG. INSPECTED 8/2/12.	1.5" NICHOLSON FTN-15 15M STEAM COIL 3/4" NICHOLSON 81S 15 STEAM MAIN	-B-1 1 1 R 12	415 BASEMENTMECH RM BF-467, AC-26 STEAM COIL 416 3
×				× ×	STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1FP-SA-15 FACE PLATE REPAIR KIT. NEW TAG. INSPECTED 8/2 STEAM TRAP OK. WHEN WORN, REPLACE STEAM TRAP WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #800-125 INVERTED BUCKET TRAP. NEW TAG. INSPECTED 8/2/12.	/4" SPIRAX FT-15 12 /4" SPIRAX TD52L 115	ת ט	413 NEW LAB PENTHOUSE PRV L.P. DRIP 3 414 NEW LAB PENTHOUSE PRV H.P. DRIP 3 BASEMENTMECH RM BF-467, AC-26 STEAM COIL 3
	×		×	×	STEAM TRAP OK. (SHOULD HAVE Y-STRAINER TO PROTECT STEAM TRAP). WHEN WORN, REPLACE STEAM TRAP WITH 3/4" SPIRAX B1H125 OK/LK OR ARMSTRONG 881-125 INVERTED BUCKET STEAM TRAP. 6" GLOBE VALVE LEAKS STEAM AT FLANGE OUTLET, REPAIR. NEW TAG. INSPECTED 8/2/12.	3/4" SPIRAX FA-150 115 STEAM MAIN DRIP	-2-6 6 F 3	NE
	NOTE 1	NO. Z		×		2" SPIRAX FT-15 15M EXCHANGER 3/4" WATSON MCD FT-3 15 FLASH TANK	-2-6 6 F 3	410A NEW LAB PENTHOUSE AC-56 HEAT EXCHANGER 3 411 NEW LAB PENTHOUSE AC-56 FLASH TANK 3
ATE REMOVABLE HARD PIPE INSULATION INSULATION	SERVICE REPIPE RELOCATE VACUUM STRAINER CONDENSATE PIPE OUTSIDE AHU	COLD COPPER / STEAM PIPE & TRAP UNIONS DEDUCT DEDUCT ALT ALT NO. 1	REMOVE REPAIR STEAM TRAP & CONDENSATE PIPING LEAK	NO WORK TRAP REQUIRED MONITOR REPAIR	COND	TRAP MODEL, MFG. & P IN EQUIPMENT PIPE SIZE	TRAP DRAWING REFERENCE NO. AREA LOCATION TRAP ELEV. TYPE AFF	STEAM TRAP TAG NO. TRAP C
	(6)	5) (6)	(4)	(T)		PIPING UPGRADES	IG SYSTEM, INSULATION AND PI	STEAM TRAP MONITORING